



**UNITED STATES DEPARTMENT OF COMMERCE
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TM

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/160,805 09/25/98 MAEDA

T 016914/0182

EXAMINER

PM82/0830

FOLEY & LARDNER
3000 K STREET N W
SUITE 500
WASHINGTON DC 20007-5109

BERGIN, J	
ART UNIT	PAPER NUMBER

3643
DATE MAILED:

4/5
08/30/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Notice of Allowability

Application No.

09/160,805

Applicant(s)

Maeda et al.

Examiner

James Berglin

Group Art Unit

3643



All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

☒ This communication is responsive to claims filed 09/25/98

☒ The allowed claim(s) is/are 1 and 2

☐ The drawings filed on _____ are acceptable.

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☒ None of the CERTIFIED copies of the priority documents have been
☐ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE **THREE MONTHS** FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

☒ Applicant MUST submit NEW FORMAL DRAWINGS

☐ because the originally filed drawings were declared by applicant to be informal.

☒ including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. _____

☐ including changes required by the proposed drawing correction filed on _____, which has been approved by the examiner.

☐ including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 3

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

☐ Interview Summary, PTO-413

☒ Examiner's Amendment/Comment

☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

☒ Examiner's Statement of Reasons for Allowance

MICHAEL J. CARONE
SUPERVISORY PATENT EXAMINER

Art Unit: 3643

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. The application has been amended as follows: The abstract of the disclosure is excessively long and has been shortened by the examiner as follows:

The section of the abstract from "The bullet....." on line 19 to "end side." on line 30 has been deleted. ✓

3. The following is an examiner's statement of reasons for allowance: The prior art fails to disclose an air gun comprising: a hit pin arranged in a cylinder portion, a valve body arranged within a hollow portion of the cylinder portion and having a bullet supplying nozzle chamber containing a bullet supplying nozzle, a valve pin chamber containing a valve pin and a gas inlet port opened to a sleeve-shaped circumferential face of the valve pin chamber, the structure also being such that the valve body, the valve pin and the bullet supply nozzle inserted into the cylinder act as an open-closing valve for supplying a compressed gas and as a switching valve for supplying the supplied gas to shoot a bullet such that the slide is moved to charge the gun with the next bullet. Accordingly, shooting the bullet, charging of the next bullet and shooting preparations for the next bullet are **made by a single valve mechanism**. Furthermore, all of the valve body, the valve pin and the bullet supplying nozzle are arranged in a barrel direction and

Art Unit: 3643

stored within the slide so that a space for storing the valve body, the valve pin and the bullet supplying nozzle can be reduced.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. This case has been passed to issue with the allowed claims 1 and 2.
5. The following references have been cited to provide relevant examples of air guns in the prior art: Williams (5,505,188), Lotuaco, III (5,878,736), Lukas et al. (5,613,483) and Casas Salva (5,884,615).
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Bergin whose telephone number is (703) 308-8549. The examiner can normally be reached on Monday - Thursday from 8.30 AM to 6.00 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone, can be reached on (703) 306-4198. The fax phone number for the organization where this application or proceeding is assigned is (703) 306-4195.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-4177.

James S. Bergin

A handwritten signature in cursive script, appearing to read "J. S. Bergin".

Examiner

August 27th, 1999

A handwritten signature in cursive script, appearing to read "Michael J. Carone".
**MICHAEL J. CARONE
SUPERVISORY PATENT EXAMINER**



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

PM82/0830

FOLEY & LARDNER
3000 K STREET N W
SUITE 500
WASHINGTON DC 20007-5109

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
09/160,805	09/25/98	002	BERGIN, J	3643 08/30/99
First Named Applicant	MAEDA,	35 USC 154(b) term ext. =	0 Days.	

TITLE OF INVENTION AIR GUN

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
3	016914/0182	124-074.000	A88 UTILITY	YES	\$605.00	11/30/99

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

HOW TO RESPOND TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give application number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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